

FORWARD

THANK YOU for choosing our company's motorcycle!

This Owner's Manual introduces the proper operation, care and maintenance of your new motorcycle. We hope it will help ensure maximum life, safety and performance of your motorcycle.

Your authorized dealers will supply you with best technical information, guidelines and after-sale service.

All information, illustrations photographs and specifications contained in this manual are based on the latest product information available at the time of publication. Due to improvements or other changes, there may be some discrepancies in this manual. Our company reserves the right to make changes at any time.

We hope sincerely that you give us your opinion and suggestion in design, production and quality of this motorcycle, and inform us in time for improvements of our company's motorcycles.

- The rider and passenger

Rider capacity of your new motorcycle is one rider and one passenger. Do not overload.(Please refer to Main Technical Data: max loading)

Our company has obtained the certificate of ISO9001:2000

Please pay particular attention to the following items:

- It may cause damage to parts and components and lead to accident if operating this motorcycle with not in accordance with instructions shown in this Owner's Manual.
- This manual should be considered a permanent part of the motorcycle and should remain with the motorcycle when resold or otherwise transferred to a new owner or operator.
- We possess the copyright of this Owner's Manual. Copying this Owner's Manual without any written permission from the company is prohibited.

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SAFE RIDING RECOMMENDATION

FORMOTORCYCLE RIDERS

Motorcycle riding requires that some extra precautions be taken to ensure the safety of the rider and passenger. Before each use, perform daily inspection with the rider. Specific items to check are listed in the INSPECTION BEFORE RIDING section of this Owner's manual.

▲SAFERIDING

- 1.Failure to inspect this motorcycle carefully before each riding may result in damage to the parts and an accident.
- 2.Do not permit anyone to operate this motorcycle without a license .
- 3.To avoid collision with other vehicles, note the followings while riding your motorcycle:

● **Choose good quality motorcycle riding apparel in terms of riding of motorcycle.**

● Operate signal equipments accurately.

● Riding this motorcycle at excessive speed increases your chances of losing control of the motorcycle. Do not press the "PASS" switch at one's pleasure.

● Always use the signals or horn when you intend to change lanes or make a turn.

● Keep both hands on the handgrips and both feet on the footrests at all times while riding. Passenger should keep feet on the passenger footrests, or injures resulting from accidents.

● Riding on bad weather days, especially wet ones, requires extra caution. Braking distances double on a rainy day.

PRECAUTIONS

1. Make sure the rider wears a helmet, eye protection, and protective clothing (gloves, leather or heavy cloth pants, long sleeved shirt or jacket, boots) as well as the passenger.
2. Do not be touched on muffler because it is hot. Make sure to wear protective clothing or boots.
3. Loose fancy clothing can be uncomfortable and unsafe in terms of riding your motorcycle.

▲LOADING

Balance the load between the left and right side of the motorcycle to ensure safety and stability.

1. When carrying a load on the motorcycle, mount it as low as possible and as close as possible to the machine. An improperly

mounted load can create a high center of gravity, which is very dangerous and creates serious stability problems and reduces safety factors.

2. Adjust tire pressure according to additional weight and driving condition.

3. Fasten the load securely to ensure stability of this motorcycle.

▲MODIFICATION TO THE MOTORCYCLE

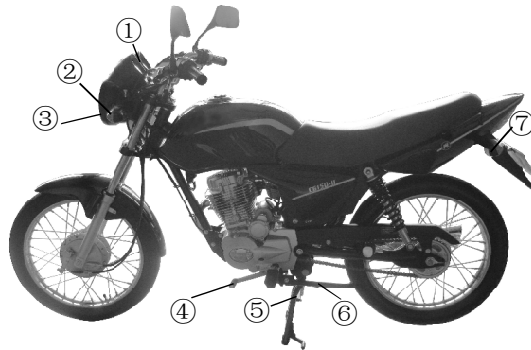
1. Tampering with modification to this motorcycle is prohibited.

2. Disobeying traffic regulations is prohibited.

▲ATTACHMENT

A set of tool kit.

NAMES OF EACH PARTS



① Instrument panel ② Front turn light ③ Headlight
④ Gearshift lever ⑤ Main stand ⑥ Side stand ⑦
Rear turn light



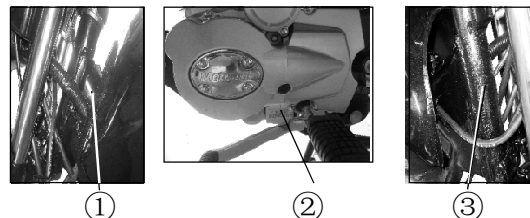
① Fuel tank cap ② Taillight ③ Vice-foothold ④ Ex-
haust muffler ⑤ Start arm ⑥ Rear brake pedal

SERIAL NUMBER LOCATION

IDENTIFICATION NUMBERS

① Engine Serial Number:

② Vehicle Identification Number (VIN):



① The Engine Serial Number is stamped on the left downside of the crankcase assembly.

② The Vehicle Identification Number (VIN) is stamped on the left upside of the steering head tube.

③ The frame number is stamped on right upside of the steering head tube.

Please write down the Vehicle Identification Number (VIN) and Engine Serial Number in the box provided above for your future reference. They are also to assist your dealer in terms of ordering parts or referring to special service information.

INSTRUMENT PANEL

① Speedometer(odometer 、 speedometer)

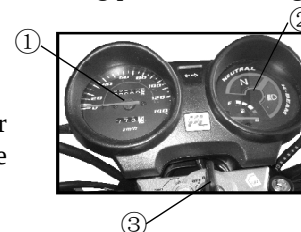
② Engine tachometer(extreme limit district) indicates the engine speed in revolutions per minutes(rpm) 9500~14000r/min is extreme limit district. Please don't revolve in this district, or the engine life will be shortened.

③ Ignition switch

“OFF” POSITION: All electrical circuits are cut off, the engine will not start. The key can be removed.

“ON” POSITION: The ignition circuit is completed and the engine can now be started. The key cannot be removed from the ignition switch in this position.

“LOCK” POSITION: To lock the steering, turn the handlebar all the way to the left. Push down the key to the “LOCK” position after come up again and remove the key. All electrical circuits are disconnected.

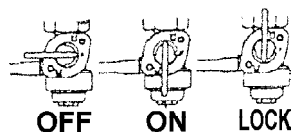


FUEL COCK

Fuel cock is under fuel tank left side.

NOTE: To open the fuel tank cap, insert the ignition key into the lock and turn it clockwise entirely. With the key inserted, lift the cap up with the key. Do not use high pressure washers to clean your motorcycle as water will get into fuel tank and damage your motorcycle.

To close the fuel tank cap, push the cap down firmly with the key in the cap lock.



WARNING: Do not overfill the fuel tank. Stop adding fuel when the fuel level reaches the bottom of the filler neck. If you fill the tank beyond this level, fuel may overflow when it expands due to engine heat.

Make sure the engine is off and turn the ignition key to the OFF position, and make sure there are no open flames or sparks in the area.

WARNING:

When put gasoline into the fuel tank, don't put too

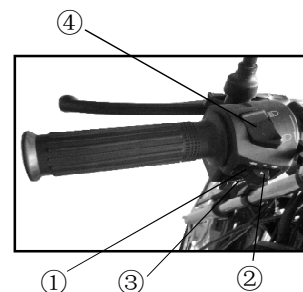
much (don't over the neck of fuel tank). After put the gasoline, make sure turn tight the fuel tank cap.
gasoline, make sure turn tight the fuel tank cap.

LEFT HANDLE SWITCHES

Dimmer switch①

High/Low beam lamp

When the dimmer switch is in the “” position, the headlamp high beam and high beam indicator lamp on the instrument panel come on.



When the dimmer switch is in the “” position, the headlamp low beam comes on and the high beam lamp is off.

Turn signal switch②

Using when turn left, right or change direction.

“” position: The left turn signal lamp flashes and the left turn signal indicator on the instrument panel lit on.

“” position: The right turn signal lamp flashes and the right turn signal indicator on the instrument

panel lit on.

When the button in the middle of “●”, the light turn off.

Horn switch③

Press the switch to operate the horn.

Light switch④

“☉” position: The headlamp, front parking lights and tail lamp come on.

“P” position: The front parking lights, and tail lamp come on.

“●” position: All lamps go off.

ENGINE OIL

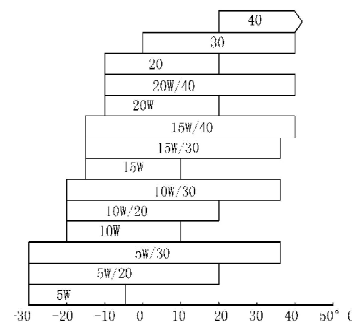
The quality of the engine oil plays a vital role in deciding the engine performance and service life. Engine oil must be selected in accordance with the rules below and other oils, such as general machine oil, gear oil and vegetable oil, are forbidden to be used.

The vehicle has been filled with the engine oil of 15W/40Q class in the company, and the lubricant is only suitable at a temperature range within -10° C-+40° C. If other motor oil is to be used instead, the alternative must be technically equivalent in every respect. Vis-

cosity varies with regions and temperatures, so the lubricant has to be selected according to our recommendation. If the gasoline engine oil of 15W/40Q class can not be obtained when in need, the gaso-

line engine oil of HQB-10#(or HQB-6# in regions where the temperature is under-10° C) is available.

Before replacing the lubricant, please drain the oil out completely re-



maintaining in the crankcase, and clean the inside by cleansing kerosene, then fill new one instead.

TYRE

Proper tyre pressure will provide maximum stability, riding comfort and tyre life.

Check tyre pressure frequently and adjust if necessary. Select the right replacement tyres in accordance with the specifications shown in the table 2.

NOTE

Tyre pressure should be checked before you ride while the tyres are “cold”. Check the tyres for cuts, embedded nails, or other sharp objects. Check the rims for dents or deformation. See your dealer for change of damaged tyres or punctured inner tubes.

!WARNING

- **Do not attempt to patch a damaged tyre or inner tube. Wheel balance and tyre reliability may be impaired.**
- **Improper tyre inflation will cause abnormal tread wear and create a safety hazard. Under inflation may result in the tyre slipping on, or coming off from the rim causing tyre deflation that may result in a loss of vehicle control.**
- **Operation with excessively worn tyres is hazardous and will adversely affect traction and handling.**
- **The use of tyres other than those listed on the table 1 may adversely affect handling.**

When the tread depth in the middle section of tyres reaches the limits in table 1 below, please replace tyres.

Table 1

Tread depth limits			
Front tyre	1.5mm	Rear tyre	2.0mm

OPERATING GUIDE

Inspection before riding

- Before riding the motorcycle, be sure to check. The following items only need some minutes, it will save your time that repair the default in the riding, and keep your safe.
- Check engine oil's oil position——According to need, put into lube oil, and check whether leakage or not.
- Check fuel oil's oil position——According to need, put the fuel oil into fuel tank, and check whether leakage or not.
- Check front and rear brake system——check front and rear brake system's operate Circumstance, to regulate the route of free travel.

- Check tire——check front and rear tire's pressure, crack and cut.
- Check storage battery electrolyte——check electrolyte's position.
- Check throttle grip's action——check stanza air valve's action, steel cable's Conjunction and handle's route of free travel, it is necessary to regulate and change.
- Check illuminate and horn——check headlamp, taillamp, turn signal lamp, brake Lamp, indicator lamp and horn whether normal or not.
- Check drive chain——check chain's tension, lube oil. If it has serious wear away and damage , it should be changed.
- Check steering bar——check the steering bar's flexibility and stability.

STARTING ENGINE

WARNING: Don't start the engine in a narrow place, in order to avoid danger. Always start the engine with the transmission in neutral, or the parts will be damaged and cause to traffic accident.

- Turn the fuelcock lever to the “on” position.
- Insert the ignition key into ignition switch, turn to “” position.
- Put the gearshift lever in neutral.the neutral indicator light(green)will light
- When the engine is cold,turn the choke lever to”close”position,untill the engine work normally,re-turn the choke lever to the benginning position.
- Check tire——check front and rear tire's pressure, crack.
- Check storage battery electrolyte——check electrolyte's position.
- Check throttle grip's action——check stanza air valve's action, steel cable's Conjunction and handle's route of free travel, it is necessary to regulate and change.
- Check illuminate and horn——check headlamp, taillamp, turn signal lamp, brake Lamp, indicator lamp and horn whether normal or not.
- Check drive chain——check chain's tension, lube oil. If it has serious wear away and damage , it should be changed.
- Check steering bar——check the steering bar's flexibility and stability.

WARNING:Don't step the start lever too power fully, in order not to hurt foot and engine Cover.

● Open the throttle grip 1/8~1/4, then push the starter switch or foot starter lever. the choke lever is under the fuel tank, turn the choke lever to complete close when cold start, when the engine begins to work, return the choke lever to the beginning position right now.

● To hot the engine in the speed 1400r/min, until the choke lever turns to complete open, so that the engine will work normally.

WARNING:In the lowest temperature's place, before starter, use the foot starter lever stir the

Bent stalk, twist the ignition switch to "OFF" to close choke lever, then to open throttle.

Engine break-in

Your new motorcycle drive during the beginning 1000Km, don't make the engine bear too much Load, and make sure any gear lowers the best speed's eighty percent, to avoid the throttle grip open Completely, and change speed, in order to release the engine bear too much load. in the beginning period make the engine break-in turning, after breaking-in, all engine components will be repaired, all adjustments will be restored, it will ensure optimum service life and performance from the engine.

Motorcycle driving

1. After the engine has been warmed up, the motorcycle is ready for riding.
2. While the engine is idling, pull in the clutch lever and tread the gearshift pedal to shift into its (low) gear.
3. Slowly release the clutch lever and at the same time gradually increase engine speed by opening the throttle. Coordination of the throttle with clutch lever will assure a smooth and positive start.
4. When the motorcycle attains a steady speed, close the throttle, pull in the clutch lever and shift to 2nd gear by treading the gearshift pedal.
5. Coordinate the throttle with brakes for smooth deceleration.
6. Both front and rear brakes should be used at the same time and should not be applied strongly enough to lock the wheel,
or braking effectiveness will be reduced and control of the motorcycle be difficult.

CAUTION

Gear shifting with the clutch engaged and the throttle not decreased a little is forbidden, or damage of the engine, drive chain or other parts may result.

BRAKING

1. For normal braking, gradually apply both the front and rear brakes while downshifting to suit your road speed.
2. For maximum deceleration, close the throttle and apply the front and rear brakes firmly. Pull in the clutch lever before coming to a complete stop to prevent stalling the engine.

Inspection and repair

Check and replacement of engine oil

Engine oil level check

(1) Stop the engine and hold the motorcycle with center stand vertically in flat surfaces.

(2) Wait one minute. The level should be between F and L.

CAUTION: Inspect the engine oil level through the engine oil level lens.

The engine cannot start with insufficient oil. Refuel engine oil between F and L level.

Replacement of engine oil and engine oil filter



Replace unused oil when the engine is warm in terms of drain the used oil in engine. The procedure is as follows.

- 1) Hold the motorcycle vertically with main stand in flat surfaces.
 - 2) Remove the oil filler cap.
 - 3) Drain the oil by removing the drain plug located on the bottom of the engine.
 - 4) Tighten the drain plug, replenish with new engine oil. Tighten the filler cap. Do not over screw the filler cap.
- NOTE:** Without replacing filter element, 910ml of new oil is enough.
- 5) Start up engine by idling speed for a few minutes.
 - 6) Stop the engine and wait a minute. Inspect the engine oil level through the engine oil level lens. Make sure that oil level is up to 'F'.

CAUTION Be sure to use engine oil recommended in the section Replacement of spark plug.

SPARK PLUG

Selection

Spark plug recommended: A7TC/1136/1137/D8RTC

Check and replace

1. Disconnect the spark plug cap from the spark plug.

2. Clean any dirt from around the spark plug base. Remove the spark plug by using the plug wrench available in the tool kit.

3. Inspect the electrodes and center porcelain for erosion or carbon deposit. If the erosion or deposit is heavy, replace the plug. Clean a carbon deposit or wetfouled plug with a plug cleaner, or use a wire brush.

4. Check the spark plug gap using a wire-type feeler gauge. If adjustment is necessary, bend the side electrode carefully.

The spark plug gap should be 0.6-0.7mm.

Make sure the plug washer is in good condition.

5. With the plug washer attached, thread the spark plug in by hand first to prevent cross threading, and then tighten it up by means of spark plug wrench.

6. Reinstall the spark plug cap.

CAUTION

● The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.

● Never use a spark plug with an improper heat range, otherwise, severe en-

0.6 - 0.7mm



gine damage could result.

Clean the air cleaner element

● Every 4000Km, at least clean and immerse the air cleaner element into engine oil one time. If you drive your motorcycle in a dusty district, make sure more maintenance. Our company's Repair station (point) will, according to your driving condition, help you decide the right maintenance period.

● Remove the connect screw, and take out the air cleaner cover. Remove the element.

● Fill a washing pan of a proper size with nonflammable cleaning solvent. Immerse the element in the solvent and wash it clean, and make it completely dry.

● Immerse the air cleaner into 15W-40QE's engine oil, until it saturates, then squeeze the excessive oil.

● Reinstall the cleaned element in reverse order of removal. Be absolutely sure that the element is securely in position and is sealing properly.

Check and adjustment of throttle grip operating

● Check the turning position of the throttle grip's two sides, whether it is steadily returning from all open position to all close position.

● Check whether the throttle grip handle's free slack is 2~6mm.

Free crevice's adjust way is loosening/tightening screw, and turning adjusting bolt.

Carburetor's idling speed adjustment

- Start up the engine and let the engine run until it warms up fully.
- After engine has warmed up, close the throttle and turn the throttle stop screw in or out so that the engine may run at 1500r/min. the idle speed increase when Turn the bolt to clockwise ,and the idle speed decrease when turn the bolt to anti-clockwise.
- When engine arrive to no idle speed is decreasing speed. Put the bolt in the middle Of the two limited position,so that suitable to the oil and air's mixture.
- If the idle speed's adjustment is not good, make sure adjust the idle speed's bolt Once again.

Adjustment of clutch

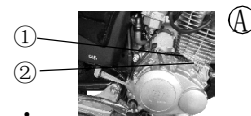
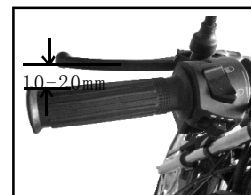
- Operate the clutch lever, make the free slack is 10~20mm in the tail. If need To adjust, please looser the tighten nut, then make the adjustment.
- Turn like the (A) position, it will make the left handle's free slack decrease.
- Remove the handle bar's dusty cover, then adjust to like the same way.

Check、 adjustment and lubrication of drive chain
If the drive chain become dirty, the drive chain and the sprocket is wore easily. Therefore, clean the drive chain with solvent and oil very 1,000km with specified lubri-

cating oil or motor oil.

- Make the motorcycle stand with main stand, using hand pull the drive chain, and Using hand Press the chain in the middle of the two chain wheel, and examine

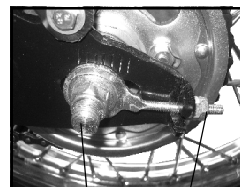
The drive chain tension. Adjust the chain tension to about 10~20mm.



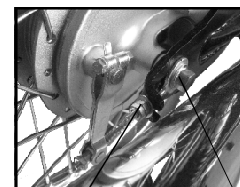
Adjustment of drive chain

Loosen the rear wheel axle nut ①, loosen the chain adjusting nut ②, turn the chain adjust Bolt ③, to assist you in performing this each chain adjuster which is to be aligned

With each other and to be used as a reference from one side to the other.



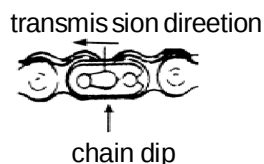
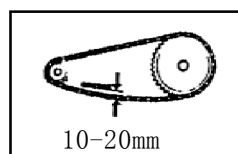
③ chain adjust bolt
② chain adjusting nut
① rear wheel axle nut



② chain adjusting nut
① rear wheel axle nut

Lubrication of drive chain

Remove the chain clap and get the chain, check wearing away situation, if damage, it should be changed, the dusty chain should be cleaned, then lubricate with chain lube Or motor oil periodically.



Check and adjustment of rear brake

Rear brake pedal's free slack is 20~30mm

When adjusted, turn the brake pole's adjusting screw, and turn around right the slack decrease, and turn around left the slack increase.



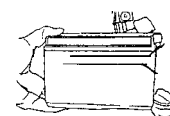
- ① adjust screw
② rear brake arm

Battery maintenance

1. Using new battery

1. 1 Adding electrolyte

1. 1. 1 Inspect battery appearance and make sure that there are no cracks, cuts on it and no damages on the battery terminal.



upper level
lower level

1. 1. 2 Open the plug for filling the electrolyte.

1. 1. 3 The specified electrolyte is stored in a bottle. Open the bottle and connect with plastic hose, and then fill the electrolyte into the battery up to UPPER LEVEL. After filling electrolyte, wait for 20 minutes. Refill to UPPER LEVEL if electrolyte level goes down.

NOTE: Do not overfill electrolyte over the UPPER LEVEL.

1. 1. 4 The motorcycle can start off after 30 minutes after filling electrolyte. It is best to charge the battery for 3 to 5 hours before using as it can ensure maximum performance and extend battery life, especially in winter or kept for a long time.

1. 1. 5 Fasten plug. Mop up the spilt electrolyte.

1. 2 Installation

1. 2. 1 Connect the battery exhaust hose with battery. Make sure the connection correctly without any damage or it may result in explosion of battery, split electrolyte to damage your clothes and motorcycle.

1. 2. 2 When assemble, (+) positive terminal first

(with red mark), then (—) negative terminal.

NOTE: Make sure install positive and negative terminal correctly. Incorrect installation of the battery will reserve the terminal position resulting in ignition switch and possible regulator/rectifier electrical system damage.

1. 2. 3 Fasten bolts and add butter or Vaseline on the bolts, nuts and terminals or to prevent them from rusty or poor lead connection.

2. Using and maintenance

2. 1Do not start the engine for more than 5 seconds. If the engine can not operate after several attempts, check oil supply system , starter and ignition system.

2. 2The following operation will cause the battery self electric discharge or insufficient charging to shorten its useful life:

(1) Starting the engine frequently in a short distance;

(2) Riding this motorcycle at low gear in long time;

(3) Squeezing brake lever or depressing the rear brake pedal when riding to have brake lamp lit too often.

(4) Installing extra electrical system or replacing excessive power bulb.

2. 3Recharge the battery at once when: hard to start off, lamp light dim and horn not operated.

2. 4Check the electrolyte level every 1-3 months. Re plenish electrolyte up to UPPER LEVEL with pured water or distilled water when level is below the LOWER LEVEL.

NOTE: Never overfill electrolyte over the UPPER LEVEL.

Recharge the battery after refill with water.

2. 5When keep for a long time, charge the battery at once and recharge once every month.

2. 6Charge the battery

2. 6. 1Charge the battery with our company's supplied charger. Charge battery indoors and where there is ventilation and keep the battery away from fires.

2. 6. 2Two charging methods: Standard charging and High-Speed charging. The standard charging is preferable as it can extend battery life.

Standard charging: electrical current: 0.7-0.8A, time: 5-15 hours

High- Speed charging: electrical current: 7-8A, time: utmost 30 minutes

2. 6. 3If electrolyte temperature is over 45 °C, stop charging immediately. Recharge battery after it is cooled. Stop charging when there is much vapor in the battery. Press or fasten the plug and mop up split electrolyte.

3. Notes

3. 1Incorrect using and charging will lead to explosion. Keep the battery away from fires. Make sure to check and install positive and negative terminal correctly to avoid explosion.

3. 2Electrolyte may be harmful as it contains sulfuric acid. if swallowed or if it comes in contact with skin, eyes and clothes. If electrolyte is swallowed, drink plenty of water or milk and contact your doctor immediately.

3. 3Place the electrolyte where children are not likely to touch.

3. 4Do not install un-recommended anti-theft alarm as damage may result to the electrical system, battery, ignition system or regulator/rectifier. It is advisable that install the anti-theft alarm supplied by our company.

MAINTENANCE CHART

Perform maintenance according to the odometer reading or time interval, whichever comes first.

Item \ interval	km	initial 1000	every 4000	every 8000
	miles	600	2400	4800
	months	5	20	40
Battery (Specific gravity of electrolyte)		I	I	-
* Cylinder head nuts & exhaust pipe bolts		T	T	-
* Camshaft drive chain		I	I	-
Air cleaner		Clean every 3,000km Replace every 12,000km		
* Valve clearance		I	I	-
Spark plug		I	C	R
Fuel hose		I	I	-
		* Replace every four years		
Engine oil and oil filter		R	R	-
Carburetor		I	I	-
Clutch		I	I	-
Fuel strainer cup		C	-	C
Drive chain		Clean and lubricate every 1000km (600miles)		
* Brake		I	I	-
Tires		I	I	-
* Steering		I	I	-
* Front fork and rear suspensions		-	I	I
* Chassis bolts and nuts		I	T	-

NOTE:inspect and clean, adjust, replace or lubricate as necessary,C=Clean. R=Replace.T=Tighten,

TOOLS

To assist you in the performance of periodic maintenance, a tool kit is supplied and is located under the seat.

SPECIFICATIONS

Model Specification Item	125	150
L*W*H(mm)	2020 × 760 × 1080	2020 × 760 × 1080
wheelbase(mm)	1340	1340
Ground clearance(mm)	170	170
Start time(S)	≤ 15	≤ 15
Dry mass(kg)	129	129
Max loading(kg)	150	150
Max speed(km/h)	85	90
Min fuel consumption(L/100Km)	≤ 1.9	≤ 2.2
Brake (front/rear)	disc/drum	disc/drum
Fuel tank capacity(L)	12	12
Fuel	90#	90#
Model of engine	157FMI	162FMJ
Engine type	4-Stroke/single cylinder/air cooled	4-Stroke/single cylinder/air cooled
Bore * stroke (mm)	56.5 × 49.5	62 × 49.5
Compression ratio	9.2:1	9.2:1
Displacement (ml)	124	149
Max power(kw/r/min)	7.5/8500	8.2/8500
Max torque N·m(r/min)	8.5/7000	10.5/7000

SPECIFICATIONS

Specification Item		Model	125	150
Spark plug(mm)			0. 6-0. 7	0. 6-0. 7
Valve clearance (in/exhaust) mm			0. 03~0. 05	0. 04~0. 07
Start mode			Elec / kick start	Elec / kick start
Clutch type			Oil multi-plate type	Oil multi-plate type
Lubricating method			Pressure splash	Pressure splash
Lubricating oil capacity(L)			1. 1	1. 1
Tire size (front/rear)			2. 75-18/3. 00-18	2. 75-18/3. 00-18
Tire pres sure (front/rear) Kpa			225/280	225/280
Handle bar twining angle lietype			48°	48°
Climbling capacity			18°	18°
Transmission type	Primary ratio		4. 055	4. 055
	1 st gear		2. 769	2. 769
	2 st gear		1. 882	1. 882
	3 st gear		1. 400	1. 400
	4 st gear		1. 130	1. 130
	5 st gear		0. 960	0. 960
Spark plug			D8TC	D8TC
Ignition			C. D. I.	C. D. I.
headlamp			12V-35W/35W	12V-35W/35W

ELECTRICAL CIRCUIT DIAGRAM

